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RAW SEQUENCE LISTING DATE: 06/03/2002
 PATENT APPLICATION: US/10/042,211A TIME: 13:24:54

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3 <110> APPLICANT: MATSUDA, Akio et al.
 5 <120> TITLE OF INVENTION: NFkB Activating Gene
 7 <130> FILE REFERENCE: 1254-0192P
 9 <140> CURRENT APPLICATION NUMBER: US 10/042,211A
 10 <141> CURRENT FILING DATE: 2002-01-11
 12 <150> PRIOR APPLICATION NUMBER: JP 2000-402288
 13 <151> PRIOR FILING DATE: 2000-12-28
 15 <150> PRIOR APPLICATION NUMBER: JP 2001-088912
 16 <151> PRIOR FILING DATE: 2001-03-26
 18 <150> PRIOR APPLICATION NUMBER: JP 2001-254018
 19 <151> PRIOR FILING DATE: 2001-08-24
 21 <150> PRIOR APPLICATION NUMBER: US 60/258,315
 22 <151> PRIOR FILING DATE: 2000-12-28
 24 <150> PRIOR APPLICATION NUMBER: US 60/278,640
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 27 <150> PRIOR APPLICATION NUMBER: US 60/314,385
 28 <151> PRIOR FILING DATE: 2001-08-24
 30 <160> NUMBER OF SEQ ID NOS: 182
 32 <170> SOFTWARE: PatentIn Ver. 2.0
 34 <210> SEQ ID NO: 1
 35 <211> LENGTH: 167
 36 <212> TYPE: PRT
 37 <213> ORGANISM: Homo sapiens
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 44 20 25 30
 46 Ser Glu Tyr Pro Pro Phe Ser His Arg Tyr Gln Arg Phe Thr Asn Ser
 47 35 40 45
 49 Ala Gly Pro Pro Pro Pro Gly Phe Lys Ser Glu Phe Thr Gly Pro Gln
 50 50 55 60
 52 Asn Thr Gly His Gly Ala Thr Ser Gly Phe Gly Ser Ala Phe Thr Gly
 53 65 70 75 80
 55 Gln Gln Gly Tyr Glu Asn Ser Gly Pro Gly Phe Trp Thr Gly Leu Gly
 56 85 90 95
 58 Thr Gly Gly Ile Leu Gly Tyr Leu Phe Gly Ser Asn Arg Ala Ala Thr
 59 100 105 110
 61 Pro Phe Ser Asp Ser Trp Tyr Tyr Pro Ser Tyr Pro Pro Ser Tyr Pro
 62 115 120 125
 64 Gly Thr Trp Asn Arg Ala Tyr Ser Pro Leu His Gly Gly Ser Gly Ser
 65 130 135 140
 67 Tyr Ser Val Cys Ser Asn Ser Asp Thr Lys Thr Arg Thr Ala Ser Gly

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88	gtctggaaag	cagcacggct	ttgcctctt	ctctgattat	tattataagt	ggtcctcgcc	180											
90	ggattcctgt	aac atg agt	gga ttg	att acc atc	gtg gta ctc	ctt ggg	229											
91	Met	Ser	Gly	Leu	Ile	Thr	Ile	Val	Val	Leu	Leu	Gly						
92	1			5			10											
94	atc	gcc	ttt	gta	gtc	tat	aag	ctg	ttc	ctg	agt	gac	ggg	cag	tat	tct	277	
95	Ile	Ala	Phe	Val	Val	Val	Tyr	Lys	Leu	Phe	Leu	Ser	Asp	Gly	Gln	Tyr	Ser	
96	15			20			25											
98	cct	cca	ccg	tac	tct	gag	tat	cct	cca	ttt	tcc	cac	cgt	tac	cag	aga	325	
99	Pro	Pro	Pro	Tyr	Ser	Glu	Tyr	Pro	Pro	Phe	Ser	His	Arg	Tyr	Gln	Arg		
100	30			35			40											
102	ttc	acc	aac	tca	gca	gga	cct	cct	ccc	cca	ggc	ttt	aag	tct	gag	ttc	373	
103	Phe	Thr	Asn	Ser	Ala	Gly	Pro	Pro	Pro	Pro	Gly	Phe	Lys	Ser	Glu	Phe		
104	45			50			55									60		
106	aca	gga	cca	cag	aat	act	ggc	cat	ggt	gca	act	tct	ggt	ttt	ggc	agt	421	
107	Thr	Gly	Pro	Gln	Asn	Thr	Gly	His	Gly	Ala	Thr	Ser	Gly	Phe	Gly	Ser		
108	65			70			75											
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111	Ala	Phe	Thr	Gly	Gln	Gly	Tyr	Glu	Asn	Ser	Gly	Pro	Gly	Phe	Trp			
112	80			85			90											
114	aca	ggc	ttg	gga	act	ggt	gga	ata	cta	gga	tat	ttg	ttt	ggc	agc	aat	517	
115	Thr	Gly	Leu	Gly	Thr	Gly	Gly	Ile	Leu	Gly	Tyr	Leu	Phe	Gly	Ser	Asn		
116	95			100			105											
118	aga	gcf	gca	aca	ccc	ttc	tca	gac	tcg	tgg	tac	tac	ccg	tcc	tat	cct	565	
119	Arg	Ala	Ala	Thr	Pro	Phe	Ser	Asp	Ser	Trp	Tyr	Tyr	Pro	Ser	Tyr	Pro		
120	110			115			120											
122	ccc	tcc	tac	cct	ggc	acg	tgg	aat	agg	gct	tac	tca	ccc	ctt	cat	gga	613	
123	Pro	Ser	Tyr	Pro	Gly	Thr	Trp	Asn	Arg	Ala	Tyr	Ser	Pro	Leu	His	Gly		
124	125			130			135								140			
126	ggc	tcg	ggc	agc	tat	tcg	gta	tgt	tca	aac	tca	gac	acg	aaa	acc	aga	661	
127	Gly	Ser	Gly	Ser	Tyr	Ser	Val	Cys	Ser	Asn	Ser	Asp	Thr	Lys	Thr	Arg		
128	145			150			155											
130	act	gca	tca	gga	tat	ggt	ggt	acc	agg	aga	cga	taaagttagaa	agttggagtc	714				
131	Thr	Ala	Ser	Gly	Tyr	Gly	Gly	Thr	Arg	Arg	Arg							
132	160			165														
134	aaacactgga	tgcagaaatt	ttggatttt	catca	ttc	tctttagaaa	aaaagtacta	774										
136	cctgttaaca	attggaaaa	ggggatattc	aaaagttcgg	tggtgttatg	tccagtgtag	834											

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 144 tgggtacta atagaaaacta agtacagaaaa atttcagttt taggtgggtt tagctgtatga 1074
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 150 ttttgagctc tgaagctttg aatcattcag tgggtggagat ggccttctgg taactgaata 1254
 152 ttacccctcg tagggaaaagg tggaaaataa gcatctagaa gggtgttg aatgactctg 1314
 154 tgctggcaaa aatgcttcaa acctctatat ttcttgcgtt cataagaggt aaaggtcaaa 1374
 156 ttttcaaca aaagtctttt aataacaaaa gcatgcagtt ctctgtgaaa tctcaaataat 1434
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 171 20 25 30
 173 Asp Pro Asp Arg Met Leu Leu Arg Asp Val Lys Ala Leu Thr Leu His
 174 35 40 45
 176 Tyr Asp Arg Tyr Thr Ser Arg Arg Leu Asp Pro Ile Pro Gln Leu
 177 50 55 60
 179 Lys Cys Val Gly Gly Thr Ala Gly Cys Asp Ser Tyr Thr Pro Lys Val
 180 65 70 75 80
 182 Ile Gln Cys Gln Asn Lys Gly Trp Asp Gly Tyr Asp Val Gln Trp Glu
 183 85 90 95
 185 Cys Lys Thr Asp Leu Asp Ile Ala Tyr Lys Phe Gly Lys Thr Val Val
 186 100 105 110
 188 Ser Cys Glu Gly Tyr Glu Ser Ser Glu Asp Gln Tyr Val Leu Arg Gly
 189 115 120 125
 191 Ser Cys Gly Leu Glu Tyr Asn Leu Asp Tyr Thr Glu Leu Gly Leu Gln
 192 130 135 140
 194 Lys Leu Lys Glu Ser Gly Lys Gln His Gly Phe Ala Ser Phe Ser Asp
 195 145 150 155 160
 197 Tyr Tyr Tyr Lys Trp Ser Ser Ala Asp Ser Cys Asn Met Ser Gly Leu
 198 165 170 175
 200 Ile Thr Ile Val Val Leu Leu Gly Ile Ala Phe Val Val Tyr Lys Leu
 201 180 185 190
 203 Phe Leu Ser Asp Gly Gln Tyr Ser Pro Pro Pro Tyr Ser Glu Tyr Pro
 204 195 200 205
 206 Pro Phe Ser His Arg Tyr Gln Arg Phe Thr Asn Ser Ala Gly Pro Pro
 207 210 215 220
 209 Pro Pro Gly Phe Lys Ser Glu Phe Thr Gly Pro Gln Asn Thr Gly His
 210 225 230 235 240
 212 Gly Ala Thr Ser Gly Phe Gly Ser Ala Phe Thr Gly Gln Gln Gly Tyr
 213 245 250 255
 215 Glu Asn Ser Gly Pro Gly Phe Trp Thr Gly Leu Gly Thr Gly Ile

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222					290			295					300			
224	Arg	Ala	Tyr	Ser	Pro	Leu	His	Gly	Gly	Ser	Gly	Ser	Tyr	Ser	Val	Cys
225	305					310				315						320
227	Ser	Asn	Ser	Asp	Thr	Lys	Thr	Arg	Thr	Ala	Ser	Gly	Tyr	Gly	Gly	Thr
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247														Met		
248														1		
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255	Leu	His	Leu	Phe	Leu	Leu	Thr	Ala	Gly	Pro	Ala	Leu	Gly	Trp	Asn	Asp
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259	Pro	Asp	Arg	Met	Leu	Leu	Arg	Asp	Val	Lys	Ala	Leu	Thr	Leu	His	Tyr
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262	gac	cgc	tat	acc	acc	tcc	cgc	agg	ctg	gat	ccc	atc	cca	cag	ttg	aaa
263	Asp	Arg	Tyr	Thr	Thr	Ser	Arg	Arg	Leu	Asp	Pro	Ile	Pro	Gln	Leu	Lys
264				50				55					60		65	
266	tgt	gtt	gga	ggc	aca	gct	ggt	tgt	gat	tct	tat	acc	cca	aaa	gtc	ata
267	Cys	Val	Gly	Gly	Thr	Ala	Gly	Cys	Asp	Ser	Tyr	Thr	Pro	Lys	Val	Ile
268					70				75				80			
270	cag	tgt	cag	aac	aaa	ggc	tgg	gat	ggg	tat	gat	gta	cag	tgg	gaa	tgt
271	Gln	Cys	Gln	Asn	Lys	Gly	Trp	Asp	Gly	Tyr	Asp	Val	Gln	Trp	Glu	Cys
272					85				90				95			
274	aag	acg	gac	tta	gat	att	gca	tac	aaa	ttt	gga	aaa	act	gtg	gtg	agc
275	Lys	Thr	Asp	Leu	Asp	Ile	Ala	Tyr	Lys	Phe	Gly	Lys	Thr	Val	Val	Ser
276					100				105				110			
278	tgt	gaa	ggc	tat	gag	tcc	tct	gaa	gac	cag	tat	gta	cta	aga	ggt	tct
279	Cys	Glu	Gly	Tyr	Glu	Ser	Ser	Glu	Asp	Gln	Tyr	Val	Leu	Arg	Gly	Ser
280					115				120				125			
282	tgt	ggc	ttg	gag	tat	aat	tta	gat	tat	aca	gaa	ctt	ggc	ctg	cag	aaa
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284					130				135				140		145	

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291	Tyr	Tyr	Lys	Trp	Ser	Ser	Ala	Asp	Ser	Cys	Asn	Met	Ser	Gly	Leu	Ile		
292								165			170					175		
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296								180			185					190		
298	ctg	agt	gac	ggg	cag	tat	tct	cct	cca	ccg	tac	tct	gag	tat	cct	cca	741	
299	Leu	Ser	Asp	Gly	Gln	Tyr	Ser	Pro	Pro	Pro	Tyr	Ser	Glu	Tyr	Pro	Pro		
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302	ttt	tcc	cac	cgt	tac	cag	aga	ttc	acc	aac	tca	gca	gga	cct	cct	ccc	789	
303	Phe	Ser	His	Arg	Tyr	Gln	Arg	Phe	Thr	Asn	Ser	Ala	Gly	Pro	Pro	Pro		
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306	cca	ggc	ttt	aag	tct	gag	ttc	aca	gga	cca	cag	aat	act	ggc	cat	ggt	837	
307	Pro	Gly	Phe	Lys	Ser	Glu	Phe	Thr	Gly	Pro	Gln	Asn	Thr	Gly	His	Gly		
308								230			235					240		
310	gca	act	tct	ggt	ttt	ggc	agt	gct	ttt	aca	gga	caa	caa	gga	tat	gaa	885	
311	Ala	Thr	Ser	Gly	Phe	Gly	Ser	Ala	Phe	Thr	Gly	Gln	Gln	Gly	Tyr	Glu		
312								245			250					255		
314	aat	tca	gga	cca	ggg	ttc	tgg	aca	ggc	ttg	gga	act	ggt	gga	ata	cta	933	
315	Asn	Ser	Gly	Pro	Gly	Phe	Trp	Thr	Gly	Leu	Gly	Thr	Gly	Gly	Ile	Leu		
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322	tgg	tac	tac	ccg	tcc	tat	cct	ccc	tcc	tac	cct	ggc	acg	tgg	aat	agg	1029	
323	Trp	Tyr	Tyr	Pro	Ser	Tyr	Pro	Pro	Ser	Tyr	Pro	Gly	Thr	Trp	Asn	Arg		
324								290			295					300	305	
326	gct	tac	tca	ccc	ctt	cac	gga	ggc	tcg	ggc	agc	tat	tgc	gta	tgt	tca	1077	
327	Ala	Tyr	Ser	Pro	Leu	His	Gly	Gly	Ser	Gly	Ser	Tyr	Ser	Val	Cys	Ser		
328								310			315					320		
330	aac	tca	gac	acg	aaa	acc	aga	act	gca	tca	gga	tat	ggt	ggt	acc	agg	1125	
331	Asn	Ser	Asp	Thr	Lys	Thr	Arg	Thr	Ala	Ser	Gly	Tyr	Gly	Gly	Thr	Arg		
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335	Arg	Arg																
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343	cag	ttttt	taa	gtatgtcat	tactgtgaa	tgctaaaaat	acattaat	ttt	ctaaaac	ctg							1421	
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